SEQUENCE LISTING

<110> Rinat Neuroscience Corporation
      Pons, Jaume

<120> AGONIST ANTI-TRKC ANTIBODIES AND METHODS USING SAME

<130> PC19492A

<140> 10/584,443
<141> 2006-06-21

<150> US 60/532,592
<151> 2003-12-23

<150> PCT/US04/43435
<151> 2004-12-23

<160> 31

<170> PatentIn version 3.4

<210> 1
<211> 123
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<400> 1

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20   25   30

Arg Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45

Gly Glu Ile Tyr Pro Ser Asn Ala Arg Thr Asn Tyr Asn Glu Lys Phe
    50   55   60

Lys Ser Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65   70   75   80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85   90   95

Ala Arg Lys Tyr Tyr Tyr Gly Asn Thr Arg Arg Ser Trp Tyr Phe Asp
            100   105   110

Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
            115   120

<210> 2
<211> 113
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 2

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1   5   10   15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Ile Asp Asn Tyr
            20   25   30

Gly Ile Ser Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
        35   40   45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Arg Gly Ser Gly Val Pro Ser
    50   55   60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
65   70   75   80

Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Lys
                85   90   95

Thr Val Pro Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100   105   110

Thr

<210> 3
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 3

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1   5   10   15

<210> 4
<211> 10
<212> PRT
<213> Artificial

<220>

<223> Synthetic construct

<400> 4

Gly Tyr Thr Phe Thr Ser Tyr Arg Ile His
1   5   10

<210> 5
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 5

Glu Ile Tyr Pro Ser Asn Ala Arg Thr Asn Tyr Asn Glu Lys Phe Lys
1   5   10   15

Ser

<210> 6.
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 6

Lys Tyr Tyr Tyr Gly Asn Thr Arg Arg Ser Trp Tyr Phe Asp Val
1   5   10   15

<210> 7
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 7

Arg Ala Ser Glu Ser Ile Asp Asn Tyr Gly Ile Ser Phe Leu Ala
1   5   10   15

<210> 8
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 8

Ala Ala Ser Asn Arg Gly Ser
1   5

<210> 9
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 9

Gln Gln Ser Lys Thr Val Pro Arg Thr
1   5

<210> 10
<211> 339
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 10
gatatccaga tgacacagtc cccatcctcc ctgtctgcct ctgtgggtga ccgcgtcacc   60

atcacctgcc gcgcaagtga gagcatcgac aactatggca tttccttcct ggcctggtat   120

cagcagaagc cgggcaaagc accaaaactc ctgatctatg ctgcatccaa tcggggttca   180

ggtgtcccat cacgcttcag tggcagtggc tctggtacag atttcacctt caccattagc   240

agcctgcaac cagaagatat tgccacttat tactgccaac agagtaagac tgtgccacgc   300

actttcggtc aaggcaccaa gctggagatc aaacgcact   339

<210> 11
<211> 654
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 11
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atcacctgcc gcgcaagtga gagcatcgac aactatggca tttccttcct ggcctggtat   120

cagcagaagc cgggcaaagc accaaaactc ctgatctatg ctgcatccaa tcggggttca   180

ggtgtcccat cacgcttcag tggcagtggc tctggtacag atttcacctt caccattagc   240

agcctgcaac cagaagatat tgccacttat tactgccaac agagtaagac tgtgccacgc   300

actttcggtc aaggcaccaa gctggagatc aaacgcactg tggctgcacc atctgtcttc   360

atcttccctc catctgatga gcagttgaaa tccggaactg cctctgttgt gtgcctgctg   420

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aataacttct atccacgcga ggccaaagta cagtggaagg tggataacgc cctccaatcc    480

ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc    540

agcacccctga ccctgagcaa agcagactac gagaaacaca aagtctacgc ctgcgaagcc   600

acccatcagg gcctgagttc tccagtcaca aagagcttca accgcggtga gtgc          654
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<210>  12
<211>  369
<212>  DNA
<213>  Artificial

<220>
<223>  Synthetic Construct

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tcctgcaaag catctggtta caccttttacc agctatcgga tccactgggt gcgccaagcc   120

cctggtcaag gcctggagtg gatgggcgaa atctacccaa gcaacgcgcg cactaactac    180

aacgagaagt tcaaatcccg ggtgaccatg actcgcgata cctccaccag cactgtctac    240

atggaactga gctctctgcg ctctgaggac actgctgtgt attactgtgc ccgcaagtac    300

tattacggca atacgcgtcg ctcctggtac ttcgatgtgt ggggccaggg taccactgtt    360

accgtgtcc                                                           369
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<210>  13
<211>  1350
<212>  DNA
<213>  Artificial

<220>
<223>  Synthetic Construct

<400>  13
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tcctgcaaagca tctggttaca cctttaccag ctatcggatc cactgggtgc gccaagcc    120

cctggtcaaggc ctggagtgga tgggcgaaat ctacccaagc aacgcgcgca ctaactac    180

aacgagaagttc aaatcccggg tgaccatgac tcgcgatacc tccaccagca ctgtctac    240

atggaactgagc tctctgcgct ctgaggacac tgctgtgtat tactgtgccc gcaagtac    300

tattacggcaat acgcgtcgct cctggtactt cgatgtgtgg ggccagggta ccactgtt    360

accgtgtcctct gcctccacca agggcccatc tgtcttccca ctggccccat gctcccgc    420

agcacctccgag agcacagccg ccctgggctg cctggtcaag gactacttcc cagaacct    480

gtgaccgtgtcc tggaactctg gcgctctgac cagcggcgtg cacaccttcc cagctgtc    540

ctgcagtcctca ggtctctact ccctcagcag cgtggtgacc gtgccatcca gcaacttc    600
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ggcacccagacc tacacctgca acgtagatca caagccaagc aacaccaagg tcgacaag      660

accgtggagaga aagtgttgtg tggagtgtcc accttgtcca gcccctccag tggccgga      720

ccatccgtgttc ctgttccctc caaagccaaa ggacaccctg atgatctcca gaacccca      780

gaggtgacctgt gtggtggtgg acgtgtccca cgaggaccca gaggtgcagt tcaactgg      840

tatgtggacgga gtggaggtgc acaacgccaa gaccaagcca agagaggagc agttcaac      900

tccaccttcaga gtggtgagcg tgctgaccgt ggtgcaccag gactggctga acggaaag      960

gagtataagtgt aaggtgtcca acaagggact gccatccagc atcgagaaga ccatctcc     1020

aagaccaaggga cagccaagag agccacaggt gtataccctg ccaccatcca gagaggag     1080

atgaccaagaac caggtgtccc tgacctgtct ggtgaaggga ttctatccat ccgacatc     1140

gccgtggagtgg gagtccaacg acagccaga gaacaactat aagaccaccc ctccaatg      1200

ctggactccgac ggatccttct tcctgtattc caagctgacc gtggacaagt ccagatgg     1260

cagcagggaaac gtgttctctt gttccgtgat gcacgaggcc ctgcacaacc actatacc     1320

cagaagagcctg tccctgtctc caggaaag                                      1350
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<210> 14
<211> 10
<212> PRT
<213> Homo sapiens

<400> 14

```
Trp Gln Gly Thr Leu Val Thr Val Ser Ser
1               5               10
```

<210> 15
<211> 11
<212> PRT
<213> Homo sapiens

<400> 15

```
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1               5               10
```

<210> 16
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (8)..(8)
<223> X = R or W

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<220>
<221>  VARIANT
<222>  (9)..(9)
<223>  X = I, L, R or M

<400>  16

Gly Tyr Thr Phe Thr Ser Tyr Xaa Xaa His
1                   5                   10


<210>  17
<211>  17
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic construct


<220>
<221>  VARIANT
<222>  (7)..(7)
<223>  X = A, T, S, or G

<220>
<221>  VARIANT
<222>  (16)..(16)
<223>  X = K or E

<400>  17

Glu Ile Tyr Pro Ser Asn Xaa Arg Thr Asn Tyr Asn Glu Lys Phe Xaa
1                   5                   10                  15


Ser


<210>  18
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic construct


<220>
<221>  VARIANT
<222>  (7)..(7)
<223>  X = T or S

<220>
<221>  VARIANT
<222>  (8)..(8)
<223>  X = R, Q, K, S OR Y

<400>  18

Lys Tyr Tyr Tyr Gly Asn Xaa Xaa Arg Ser Trp Tyr Phe Asp Val
1                   5                   10                  15
```

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<210>  19
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic construct


<220>
<221>  VARIANT
<222>  (6)..(6)
<223>  X = I or V

<220>
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<223>  X = N or S

<220>
<221>  VARIANT
<222>  (14)..(14)
<223>  X = L or M

<220>
<221>  VARIANT
<222>  (15)..(15)
<223>  X = A, T or N

<400>  19
```

Arg Ala Ser Glu Ser Xaa Asp Xaa Tyr Gly Ile Ser Phe Xaa Xaa
1   5   10   15

```
<210>  20
<211>  7
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic construct


<220>
<221>  VARIANT
<222>  (5)..(5)
<223>  X = R, L, or Q

<400>  20
```

Ala Ala Ser Asn Xaa Gly Ser
1   5

```
<210>  21
<211>  9
<212>  PRT
<213>  Artificial

<220>
```

<223> Synthetic construct

<220>
<221> VARIANT
<222> (5)..(5)
<223> X = T, A, S or E

<400> 21

Gln Gln Ser Lys Xaa Val Pro Arg Thr
1   5

<210> 22
<211> 10
<212> PRT
<213> Mus musculus

<400> 22

Gly Tyr Thr Phe Thr Ser Tyr Trp Met His
1   5   10

<210> 23
<211> 17
<212> PRT
<213> Mus musculus

<400> 23

Glu Ile Tyr Pro Ser Asn Gly Arg Thr Asn Tyr Asn Glu Lys Phe Lys
1   5   10   15

Ser

<210> 24
<211> 15
<212> PRT
<213> Mus musculus

<400> 24

Lys Tyr Tyr Tyr Gly Asn Ser Tyr Arg Ser Trp Tyr Phe Asp Val
1   5   10   15

<210> 25
<211> 15
<212> PRT
<213> Mus musculus

<400> 25

Arg Ala Ser Glu Ser Val Asp Asn Tyr Gly Ile Ser Phe Met Asn
1   5   10   15

<210> 26

<211> 7
<212> PRT
<213> Mus musculus

<400> 26

Ala Ala Ser Asn Gln Gly Ser
1   5

<210> 27
<211> 9
<212> PRT
<213> Mus musculus

<400> 27

Gln Gln Ser Lys Glu Val Pro Arg Thr
1   5

<210> 28
<211> 450
<212> PRT
<213> Artificial

<220>
<223> Synthetic sequence

<400> 28

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1   5   10   15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20   25   30

Arg Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45

Gly Glu Ile Tyr Pro Ser Asn Ala Arg Thr Asn Tyr Asn Glu Lys Phe
    50   55   60

Lys Ser Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65   70   75   80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85   90   95

Ala Arg Lys Tyr Tyr Tyr Gly Asn Thr Arg Arg Ser Trp Tyr Phe Asp
            100   105   110

Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
            115   120   125

```
Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu
    130                 135                 140

Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro
145                 150                 155                 160

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr
                165                 170                 175

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val
                180                 185                 190

Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn
        195                 200                 205

Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg
    210                 215                 220

Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly
225                 230                 235                 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
                245                 250                 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
            260                 265                 270

Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
        275                 280                 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg
    290                 295                 300

Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys
305                 310                 315                 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
                325                 330                 335

Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
            340                 345                 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
        355                 360                 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
    370                 375                 380
```

```
Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met
385             390             395             400
```

```
Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
                405             410             415
```

```
Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
            420             425             430
```

```
Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
        435             440             445
```

```
Gly Lys
    450
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<210> 29
<211> 218
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 29

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5               10              15
```

```
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Ile Asp Asn Tyr
            20              25              30
```

```
Gly Ile Ser Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
        35              40              45
```

```
Lys Leu Leu Ile Tyr Ala Ala Ser Asn Arg Gly Ser Gly Val Pro Ser
    50              55              60
```

```
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
65              70              75              80
```

```
Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Lys
                85              90              95
```

```
Thr Val Pro Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
            100             105             110
```

```
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
            115             120             125
```

```
Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
    130             135             140

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145             150             155             160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
            165             170             175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
            180             185             190

His Lys Val Tyr Ala Cys Glu Ala Thr His Gln Gly Leu Ser Ser Pro
            195             200             205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    210             215
```